

CA-IR-3

**Ref: HECO Exhibit 101, Page 4.**

The row labeled “System Operation Perspective,” column 3 labeled “Kamoku 46 kV Alternative” and column 4 labeled “Kamoku 46 kV Alternative Expanded” indicate that each of these two options “provides no 138 kV flexibility.” Please explain this statement and provide copies of all documentation and/or analysis to support this conclusion.

**HECO Response:**

The Kamoku 46kV Underground Alternative – Expanded does not provide 138kV flexibility because the scope of the project does not add to the 138kV transmission system. On the other hand, the Kamoku 138kV Underground Alternative would connect the Pukele Substation on the Northern Corridor to the Kamoku Substation on the Southern Corridor. With this permanent 138kV connection, load transfers between the Southern and Northern Corridors would occur seamlessly without having to manually transfer loads when performing maintenance on the lines serving the Downtown 138kV transmission lines. This would provide flexibility on the 138kV system. HECO T-4 (page 58) does explain, however, that with the installation of the 46kV Alternative, HECO plans to shift load from the Downtown Substations to the Pukele Substation in order to perform maintenance on the 138kV transmission lines serving the Downtown Substations. This will provide HECO with “flexibility” in maintaining its 138 kV lines.